
Symbol (1):
Description, ship. name (2): Lithium hydroxide, monohydrate [or]
Lithium hydroxide, solid
Hazard class or Division (3): 8
Identification Numbers (4): UN2680
PG (Packing Group) (5): II
Label Codes (6): 8
Special provision (7):
Packaging (173.***)(8)
Exceptions (8A): 154
Nonbulk (8B): 212
Bulk (8C): 240
Quantity limitations (9)
Passngr aircraft/rail (9A): 15 kg
Cargo aircraft only (9B): 50 kg
Vessel Stowage (10)
Location (10A): A
Other (10B):



173.240

Bulk packaging for certain low hazard solid materials.

When §172.101 of this subchapter specifies that a hazardous material be packaged under this section, only the following bulk packagings are authorized, subject to the requirements of subparts A and B of part 173 of this subchapter and the special provisions specified in Column 7 of the §172.101 Table.

173.240(a)

(a) *Rail cars*: Class DOT 103, 104, 105, 109, 111, 112, 114, 115, or 120 tank car tanks; Class 106 or 110 multi-unit tank car tanks; and metal non-DOT specification, sift-proof tank car tanks and sift-proof closed cars.

173.240(b)

(b) *Motor vehicles*: Specification MC 300, MC 301, MC 302, MC 303, MC 304, MC 305, MC 306, MC 307, MC 310, MC 311, MC 312, MC 330, MC 331, DOT 406, DOT 407, and DOT 412 cargo tank motor vehicles; non-DOT specification, sift-proof cargo tank motor vehicles; and sift-proof closed vehicles.

173.240(c)

(c) *Portable tanks and closed bulk bins*: DOT 51, 52, 53, 56, 57 and 60 portable tanks; IMO type 1, 2 and 5, and IM 101 and IM 102 portable tanks; marine portable tanks conforming to 46 CFR part 64; and sift-proof non-DOT specification portable tanks and closed bulk bins.

173.240(d)

(d) *Intermediate bulk containers*. Intermediate bulk containers are authorized subject to the conditions and limitations of this paragraph and paragraph (d)(2) of this section provided they conform to the requirements in subpart O of part 178 of this subchapter at the Packing Group performance level specified in column 5 of the §172.101 Table of this subchapter for the material being transported.

173.240(d)(1)

(1) The following are authorized:

173.240(d)(1)(i)

(i) *Composite*: 11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1, or 31HZ2. For composite intermediate bulk containers, the letter "Z" must be replaced with a capital letter which indicates the material of construction of the outer packaging. For example 21HA1 is a composite intermediate bulk container with a metal outer packaging (see §178.702 of this subchapter);

173.240(d)(1)(ii)

(ii) *Fiberboard*: 11G;

173.240(d)(1)(iii)

(iii) *Flexible*: 13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, or 13M2;

173.240(d)(1)(iv)

(iv) *Metal*: 11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B, or 31N;

173.240(d)(1)(v)

(v) *Rigid plastic*: 11H1, 11H2, 21H1, 21H2, 31H1, or 31H2; or

173.240(d)(1)(vi)

(vi) Wooden intermediate bulk containers: 11C, 11D, or 11F.

173.240(d)(2)

(2) The following conditions and limitations apply to the use of intermediate bulk containers:

173.240(d)(2)(i)

(i) Flexible, fiberboard and wooden intermediate bulk containers are intended for the transport of solids only and may not be used for liquids or materials that may become liquid during transportation; or

173.240(d)(2)(ii)

(ii) Flexible, fiberboard, or wooden intermediate bulk containers containing materials in Packing Group II must be packed in a closed freight container or a closed transport vehicle.

[Amdt. 173-224, 55 FR 52663, Dec. 21, 1990, as amended at 56 FR 66274, Dec. 20, 1991; Amdt. 173-238, 59 FR 38067, July 26, 1994; Amdt. 173-252, 61 FR 28676, June 5, 1996]



U.S. Department
of Transportation
Research and
Special Programs
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

JAN 30 1998

Mr. Jerry D. Davis
Manager, Corporate Transportation Programs
Laidlaw Environmental Services, Inc.
P.O. Box 11393
Columbia, SC 29211

Dear Mr. Davis:

This is in response to your letter of January 5, 1998, regarding packaging requirements for Class 9 hazardous materials under the Hazardous Materials Regulations (HMR; 49 CFR parts 171-180). Specifically you ask whether a shipper may place ten cubic yards of Hazardous waste, solid, n.o.s., 9, NA 3077, III with several non-bulk packages containing Asbestos, 9, NA2212, III in a non-specification sift-proof closed bulk bin.

The answer is yes. As provided in § 173.240, a non-specification closed bulk bin is an authorized bulk packaging for both of the described Class 9 materials. The fact that the asbestos is already packaged in bags is not relevant to this scenario.

I hope this information is helpful.

Sincerely,

Delmar F. Billings
Chief, Regulations Development
Office of Hazardous Materials Standards